

AMENDMENTS TO THE CLAIMS

The following Listing of Claims replaces all prior versions, and listings, of claims in the present application.

Listing of Claims:

1-14. (Canceled)

15. (Currently amended) An electromechanical transducer comprising:

at least two separately-controllable transducer elements;

at least two magnetized layers in each of the transducer elements that enable the transducer element to change its thickness;

air gaps between the layers that allow air to flow inside the transducer element in the direction of thickness of the ~~transducer~~ transducer;

current conductors arranged between the magnetized layers; and

controlling means for controlling the transducer elements such that the center of mass of the transducer is moved and/or a signal is generated from the movement of the center of mass.

16-26. (Canceled)

27. (Previously presented) A method for producing or attenuating sound pressure or vibration, the method comprising:

providing a transducer that has at least two transducer elements that change their thickness;

feeding separate control signals to each of the transducer elements; and

separately controlling the amplitude and phase of each control signal fed to the transducer elements to produce a desired radiation pattern of sound pressure or vibration, whereby the center of mass of the transducer moves with acceleration corresponding to the control signals and thereby produces a counterforce used in producing the desired radiation pattern.

28. (New) A method as claimed in claim 27, wherein different transducer elements are controlled by the same control signal but at two different transducer elements, the effect of the control signal is of opposite phase.

29. (New) A method as claimed in claim 27, wherein the electromechanical transducer comprises at least one air impermeable layer, the electromechanical transducer being used for producing air pressure or vibration.

30. (New) A method as claimed in claim 27, wherein the operation of the transducer is linearized by means of feedback.

31. (New) A method as claimed in claim 30, wherein the pressure on a surface of the transducer is measured for the feedback.

32. (New) A method as claimed in claim 27, wherein a signal is fed into different layers of the transducer element such that certain frequencies have been filtered off from the signals fed into the different layers.